

=> d his

(FILE 'HOME' ENTERED AT 08:53:30 ON 18 SEP 2007)

FILE 'CAPLUS' ENTERED AT 08:53:42 ON 18 SEP 2007

L1 7547 S ABB=ON PLU=ON HYDROFORMYLAT?
L2 344310 S ABB=ON PLU=ON FATTY (2W) ACID
L3 8 S ABB=ON PLU=ON S FATTY (2W) ACID (2W) ESTER
L4 4657 S ABB=ON PLU=ON PHOSPHINE (2W) LIGANDS
L5 0 S ABB=ON PLU=ON METAL ADJ CATION
L6 20536 S METAL CATION
L7 46267 S FATTY ACID (2W) ESTER?
L8 88 S L1 AND L2
L9 2 S L8 AND L4
L10 35 S L7 AND L1
L11 35 S L10 NOT L9
L12 9 S L11 AND ALDEHYDE
L13 0 S MONO ADJ ALCOHOL
L14 195 S MONO ALCOHOL
L15 93005 S DIOL
L16 15205 S TRIOL
L17 2 S L15 AND 65 (2W) PERCENT
L18 5910 S L15 AND L16
L19 486 S L18 AND RATIO
L20 0 S L19 AND FIVE TO ONE
L21 1 S L19 AND L1
L22 0 S L14 AND L3
L23 858248 S ALCOHOL
L24 13110 S L23 AND L7
L25 242 S L24 AND L15
L26 23 S L25 AND L16
L27 22 S L26 NOT L21
L28 0 S L27 AND L4

FILE 'USPATFULL' ENTERED AT 09:22:29 ON 18 SEP 2007

L29 0 S HYSROFORMYLAT?
L30 3412 S HYDROFORMYLAT?
L31 71195 S FATTY ACID (2W) ESTER?
L32 71 S MONOFORMYL
L33 0 S L29 AND L30
L34 223 S L30 AND L31
L35 4 S L34 AND L32

=> log off

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:y

STN INTERNATIONAL LOGOFF AT 09:29:39 ON 18 SEP 2007

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTAYKC1621

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	JUL 02	LMEDLINE coverage updated
NEWS	3	JUL 02	SCISEARCH enhanced with complete author names
NEWS	4	JUL 02	CHEMCATS accession numbers revised
NEWS	5	JUL 02	CA/CAPLUS enhanced with utility model patents from China
NEWS	6	JUL 16	CAPLUS enhanced with French and German abstracts
NEWS	7	JUL 18	CA/CAPLUS patent coverage enhanced
NEWS	8	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS	9	JUL 30	USGENE now available on STN
NEWS	10	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS	11	AUG 06	BEILSTEIN updated with new compounds
NEWS	12	AUG 06	FSTA enhanced with new thesaurus edition
NEWS	13	AUG 13	CA/CAPLUS enhanced with additional kind codes for granted patents
NEWS	14	AUG 20	CA/CAPLUS enhanced with CAS indexing in pre-1907 records
NEWS	15	AUG 27	Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS	16	AUG 27	USPATOLD now available on STN
NEWS	17	AUG 28	CAS REGISTRY enhanced with additional experimental spectral property data
NEWS	18	SEP 07	STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS	19	SEP 13	FORIS renamed to SOFIS
NEWS	20	SEP 13	INPADOCDB enhanced with monthly SDI frequency
NEWS	21	SEP 17	CA/CAPLUS enhanced with printed CA page images from 1967-1998
NEWS	22	SEP 17	CAPLUS coverage extended to include traditional medicine patents
NEWS EXPRESS	05	SEPTEMBER 2007:	CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 05 SEPTEMBER 2007.
NEWS HOURS			STN Operating Hours Plus Help Desk Availability
NEWS LOGIN			Welcome Banner and News Items
NEWS IPC8			For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 08:02:44 ON 18 SEP 2007

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.84

0.84

FILE 'CAPLUS' ENTERED AT 08:04:54 ON 18 SEP 2007

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FILE COVERS 1907 - 18 Sep 2007 VOL 147 ISS 13

FILE LAST UPDATED: 17 Sep 2007 (20070917/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s abb=on plu=on fatty (2w) acid

388640 FATTY

14 FATTIES

388644 FATTY

(FATTY OR FATTIES)

4437768 ACID

1591654 ACIDS

4940388 ACID

(ACID OR ACIDS)

L1 344310 FATTY (2W) ACID

=> s abb=on plu=on fatty (2w) acid (2w) ester

388640 FATTY

14 FATTIES

388644 FATTY

(FATTY OR FATTIES)

4437768 ACID

1591654 ACIDS

4940388 ACID

(ACID OR ACIDS)

606358 ESTER

445584 ESTERS

841346 ESTER

(ESTER OR ESTERS)

L2 44587 FATTY (2W) ACID (2W) ESTER

=> s abb=on plu=on hydroformula?

L3 46 HYDROFORMULA?

=> s hydroformulation

38 HYDROFORMULATION

1 HYDROFORMULATIONS

L4 39 HYDROFORMULATION

(HYDROFORMULATION OR HYDROFORMULATIONS)

=> s abb=on plu=on catalyst (5w) phosphine (2w) ligands

775630 CATALYST

773065 CATALYSTS

991512 CATALYST

(CATALYST OR CATALYSTS)

71174 PHOSPHINE

17130 PHOSPHINES

75955 PHOSPHINE

(PHOSPHINE OR PHOSPHINES)

223515 LIGANDS

L5 339 CATALYST (5W) PHOSPHINE (2W) LIGANDS

=> s metal (2w) cation

1772332 METAL

884864 METALS

2143628 METAL

(METAL OR METALS)

282025 CATION

188388 CATIONS

395740 CATION

(CATION OR CATIONS)

L6 23738 METAL (2W) CATION

=> s abb=on plu=on hydrogen?

L7 1283295 HYDROGEN?

=> s hydrogenation

177702 HYDROGENATION

2336 HYDROGENATIONS

L8 177943 HYDROGENATION

(HYDROGENATION OR HYDROGENATIONS)

=> s diol (4w) triol

79202 DIOL

24604 DIOLS

93005 DIOL

(DIOL OR DIOLS)

13778 TRIOL

2719 TRIOLS

15205 TRIOL

(TRIOL OR TRIOLS)

L9 1276 DIOL (4W) TRIOL

=> d his

(FILE 'HOME' ENTERED AT 08:02:44 ON 18 SEP 2007)

FILE 'CAPLUS' ENTERED AT 08:04:54 ON 18 SEP 2007

```
L1      344310 S ABB=ON PLU=ON FATTY (2W) ACID
L2      44587 S ABB=ON PLU=ON FATTY (2W) ACID (2W) ESTER
L3      46 S ABB=ON PLU=ON HYDROFORMULA?
L4      39 S HYDROFORMULATION
L5      339 S ABB=ON PLU=ON CATALYST (5W) PHOSPHINE (2W) LIGANDS
L6      23738 S METAL (2W) CATION
L7      1283295 S ABB=ON PLU=ON HYDROGEN?
L8      177943 S HYDROGENATION
L9      1276 S DIOL (4W) TRIOL
```

=> s abb=on plu=on hydrogenation=NT, rt/ct
 NUMERIC VALUE NOT VALID 'NT, RT'

Numeric values may contain 1-8 significant figures. If range notation is used, both the beginning and the end of the range must be specified, e.g., '250-300/MW'. Expressions such as '250-/MW' are not allowed. To search for values above or below a given number, use the >, =>, <, or <= operators, e.g., 'MW => 250'. Text terms cannot be used in numeric expressions. If you specify a unit, it must be dimensionally correct for that field code. To see the unit designations for field codes in the current file, enter "DISPLAY UNIT ALL" at an arrow prompt (=>).

=> s abb=on plu=on hydrogenation+nt,rt/ct
 THE ESTIMATED SEARCH COST FOR FILE 'CAPLUS' IS 14.07 U.S. DOLLARS
 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
 L10 84722 HYDROGENATION+NT,RT/CT (7 TERMS)

=> d his

(FILE 'HOME' ENTERED AT 08:02:44 ON 18 SEP 2007)

FILE 'CAPLUS' ENTERED AT 08:04:54 ON 18 SEP 2007

```
L1      344310 S ABB=ON PLU=ON FATTY (2W) ACID
L2      44587 S ABB=ON PLU=ON FATTY (2W) ACID (2W) ESTER
L3      46 S ABB=ON PLU=ON HYDROFORMULA?
L4      39 S HYDROFORMULATION
L5      339 S ABB=ON PLU=ON CATALYST (5W) PHOSPHINE (2W) LIGANDS
L6      23738 S METAL (2W) CATION
L7      1283295 S ABB=ON PLU=ON HYDROGEN?
L8      177943 S HYDROGENATION
L9      1276 S DIOL (4W) TRIOL
L10     84722 S ABB=ON PLU=ON HYDROGENATION+NT,RT/CT
```

=> ;1 amd ;3
 1 IS NOT A RECOGNIZED COMMAND
 COMMAND STACK INTERRUPTED. ENTER "DISPLAY HISTORY"
 TO SEE WHICH COMMANDS WERE EXECUTED.

The previous command name entered was not recognized by the system.
 For a list of commands available to you in the current file, enter
 "HELP COMMANDS" at an arrow prompt (=>).

=> s l1 and l3
 L11 0 L1 AND L3

=> s abb=on plu=on hydroformyla?
 L12 7547 HYDROFORMYLA?

=> l12 and l1

L12 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s l12 and l1

L13 88 L12 AND L1

=> s l13 and aldehyde

114006 ALDEHYDE

108451 ALDEHYDES

174070 ALDEHYDE

(ALDEHYDE OR ALDEHYDES)

L14 19 L13 AND ALDEHYDE

=> s l14 and l10

L15 3 L14 AND L10

=> d l15 1-3 Ibib abs

L15 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:395471 CAPLUS

DOCUMENT NUMBER: 142:428892

TITLE: Production of hydrocarbons and oxygen-containing
compounds from biomass using fermentation combined
with chemical synthesis

INVENTOR(S): Golubkov, Igor

PATENT ASSIGNEE(S): Swedish Biofuels AB, Swed.

SOURCE: PCT Int. Appl., 66 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005040392	A1	20050506	WO 2004-SE1534	20041022 /
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
SE 2003002800	A	20050425	SE 2003-2800	20031024
SE 526429	C2	20050913		
AU 2004284364	A1	20050506	AU 2004-284364	20041022
CA 2541899	A1	20050506	CA 2004-2541899	20041022
US 2005112739	A1	20050526	US 2004-970835	20041022
EP 1680509	A1	20060719	EP 2004-793835	20041022
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
CN 1871358	A	20061129	CN 2004-80031303	20041022

BR 2004015619	A	20061212	BR 2004-15619	20041022
MX 2006PA04340	A	20060904	MX 2006-PA4340	20060419
IN 2006CN01816	A	20070608	IN 2006-CN1816	20060524
PRIORITY APPLN. INFO.:			SE 2003-2800	A 20031024
			US 2003-513583P	P 20031024
			WO 2004-SE1534	W 20041022

AB A method which can be used in fermenting carbohydrate substrates of plant origin for producing C1-C5 alcs., and for synthesis of higher alcs., and other oxygen-containing compds. Since C6 and higher alcs. are not obtainable by a direct biochem. route, it is proposed to synthesize these using known chemical reactions, wherein the raw material for synthesis is biogas and lower C2-C5 alcs. obtained by the inventive method wherein the amino acids leucine, isoleucine, and valine, or a mixture thereof, optionally obtained from yeast autolyzate, is used as a biocatalyst at the stage of fermentation

It is also proposed to use degraders of C2-C5 alcs. production for obtaining biogas. The method offers a solution to the following problems: to considerably increase the yield of C2-C5 alcs. in fermentation of carbohydrate substrates; to increase by 1.5-2.0 times the productivity of the fermentation

in terms of C2-C5 alcs. production; to utilize the protein-containing waste for C2-C5

alcs. production, to reach highest efficiency of biomass utilization in producing higher oxygen-containing compds. and hydrocarbons.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:71152 CAPLUS

DOCUMENT NUMBER: 142:158390

TITLE: Minimization of formation of phosphine ligand degradation products or promotion of reversion of same to useful phosphine ligands in reaction of olefins

INVENTOR(S): Briggs, John R.; Peng, Wei-Jun; Roesch, Brian M.; Abatjoglou, Anthony G.; Morrison, Donald L.

PATENT ASSIGNEE(S): Union Carbide Chemicals & Plastics Technology Corporation, USA

SOURCE: PCT Int. Appl., 49 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005007602	A1	20050127	WO 2004-US20813	20040628
W:				
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW:				
BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2530739	A1	20050127	CA 2004-2530739	20040628

Serial No.: 10/551854

EP 1646599	A1	20060419	EP 2004-756323	20040628
R: DE, FR, NL				
BR 2004011948	A	20060829	BR 2004-11948	20040628
CN 1997616	A	20070711	CN 2004-80019013	20040628
US 2007100169	A1	20070503	US 2005-562602	20051228
PRIORITY APPLN. INFO.:			US 2003-484807P	P 20030703
			WO 2004-US20813	W 20040628

OTHER SOURCE(S): MARPAT 142:158390

AB Minimization of formation of phosphonium ion ligand degradation products during reaction of a polyunsatd. olefin or an unconjugated functionalized olefin, such as hydroformylation, in the presence of a transition metal-triorganophosphine ligand complex catalyst to form, as a product, byproduct, or intermediate product, a conjugated functionalized olefin having a carbon-carbon double bond conjugated to an α -electron-withdrawing group, such as, an α,β -unsatd. aldehyde, ketone, ester, acid, or nitrile involves conducting the reaction under selected conditions of conversion, temperature, pressure, or a combination thereof; and/or by selecting a triorganophosphine ligand with a specified steric and/or electronic property. Further, a process for reversion of phosphonium ion ligand degradation product(s) back to useful triorganophosphine ligand(s) involves treating a reaction product fluid containing the degradation product(s) with an inert gas, hydrogen, synthesis gas, or a mixture thereof under conditions sufficient to regenerate the triorganophosphine ligand(s).

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:965199 CAPLUS

DOCUMENT NUMBER: 141:412736

TITLE: Aldehyde and alcohol compositions derived from seed oils

INVENTOR(S): Lysenko, Zenon; Morrison, Donald L.; Babb, David A.; Bunning, Donald L.; Derstine, Christopher W.; Gilchrist, James H.; Jouett, Ray H.; Kanel, Jeffrey S.; Olson, Kurt D.; Peng, Wei-Jun; Phillips, Joe D.; Roesch, Brian M.; Sanders, Aaron W.; Schrock, Alan K.; Thomas, P. J.

PATENT ASSIGNEE(S): Dow Global Technologies Inc., USA

SOURCE: PCT Int. Appl., 35 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004096744	A2	20041111	WO 2004-US12246	20040422
WO 2004096744	A3	20050120		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,			

Serial No.: 10/551854

ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
TD, TG

CA 2523433 A1 20041111 CA 2004-2523433 20040422
EP 1620387 A2 20060201 EP 2004-750403 20040422

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK

CN 1780808 A 20060531 CN 2004-80011116 20040422

BR 2004010529 A 20060620 BR 2004-10529 20040422

US 2006193802 A1 20060831 US 2005-551854 20050930

IN 2005CN02747 A 20070831 IN 2005-CN2747 20051024

PRIORITY APPLN. INFO.: US 2003-465663P P 20030425

WO 2004-US12246 W 20040422

OTHER SOURCE(S): MARPAT 141:412736

AB An aldehyde composition derived by hydroformylation of a transesterified seed oil comprises a mixture of formyl-substituted fatty acids or fatty acid esters comprising from 10 to 95% of monoformyl, from 1 to 65% of diformyl, and from 0.1 to 10% of triformyl-substituted fatty acids or fatty acid esters with a diformyl to triformyl ratio > 5/1. The aldehyde mixture preferably contains from 3 to 20% of sats., and from 1 to 20% of unsaturates. An alc. composition derived by hydrogenation of the aldehyde composition comprises a mixture of hydroxymethyl-substituted fatty acids or fatty acid esters comprising from 10 to 95% of monoalc. (monohydroxymethyl), from 1 to 65% of diol (dihydroxymethyl), from 0.1 to 10% of triol (trihydroxymethyl)-substituted fatty acids or fatty acid esters. The alc. mixture preferably contains from 3 to 35% of sats., and < 10% of unsaturates. The alc. composition may be converted into an oligomeric polyol for use in the manufacture of polyurethane slab stock flexible foams.

=> d hist

(FILE 'HOME' ENTERED AT 08:02:44 ON 18 SEP 2007)

FILE 'CAPLUS' ENTERED AT 08:04:54 ON 18 SEP 2007

L1 344310 S ABB=ON PLU=ON FATTY (2W) ACID
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L4 39 S HYDROFORMULATION
L5 339 S ABB=ON PLU=ON CATALYST (5W) PHOSPHINE (2W) LIGANDS
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L11 0 S L1 AND L3
L12 7547 S ABB=ON PLU=ON HYDROFORMYLA?
L13 88 S L12 AND L1
L14 19 S L13 AND ALDEHYDE
L15 3 S L14 AND L10

=> s l2 and l10

L16 481 L2 AND L10

=> s l16 and l9

L17 1 L16 AND L9

=> d l17 ibib abs

L17 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2007:348602 CAPLUS
DOCUMENT NUMBER: 147:51914
TITLE: Production of polyols from canola oil and their
chemical identification and physical properties
AUTHOR(S): Narine, Suresh S.; Yue, Jin; Kong, Xiaohua
CORPORATE SOURCE: Department of Agricultural Food and Nutritional
Science, 4-10 Agricultural/Forestry Centre, University
of Alberta, Edmonton, AB, T6G 2P5, Can.
SOURCE: Journal of the American Oil Chemists' Society (2007),
84(2), 173-179
CODEN: JAOCA7; ISSN: 0003-021X
PUBLISHER: Springer
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The feasibility of a method based on ozonolysis and hydrogenation
reactions for the production of polyols from unsatd. canola oil was
demonstrated. Polyol products with primary alc. functional groups at
position 9 of each fatty acid ester in the
original triacylglycerol have been produced from canola oil. Short
straight-chain alcs. were also produced and were removed by wiped-blade
mol. distillation. The pure components of the polyol, i.e. mono-ol, diol
and triol were separated by flash chromatog., and identified by
Fourier-transform IR (FTIR), ¹H-NMR, ¹³C-NMR as well as mass spectrometry.
Polyol identification was facilitated by the use of a simple
high-performance liquid chromatog. (HPLC) method to determine the composition
of the
polyol mixture, which can be exploited as a quality-control mechanism in
designing novel polyol feed-stocks. Basic correlations were established
between the mol. diversity of the polyols and their physicochem.
properties, such as hydroxyl number, acidity number, and viscosity. It has
been
found that the produced polyols are suitable for processing methods
employing polyols for the production of polyurethanes and can be manipulated
to create polyurethanes with desirable properties.

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s l2 and l112 and l10 and l9 not l15

8 LL12

L18 0 L2 AND LL12 AND L10 AND L9 NOT L15

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTAYKC1621

PASSWORD:
THIS LOGINID IS CURRENTLY IN USE.

Serial No.: 10/551854

DO YOU WISH TO RESUME THE PREVIOUS SESSION? Y/(N)/?:

Invalid response, please try again

Invalid response, please try again

Invalid response, please try again

Y

THE PREVIOUS SESSION IS BEING DISCONNECTED.

PLEASE LOG IN AGAIN TO BE RECONNECTED.

SYSTEM LOGOFF AT 08:51:20 ON 18 SEP 2007 US EASTERN TIME

Connection closed by remote host

A new logon attempt will be made when this window closes. If you chose to RESUME PREVIOUS SESSION, then continue with the logon process as normal. If not, choose Cancel or <ESC> to interrupt the logon process.

Y

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NEWS	4	JUL 02	CHEMCATS accession numbers revised
NEWS	5	JUL 02	CA/CAPLUS enhanced with utility model patents from China
NEWS	6	JUL 16	CAPLUS enhanced with French and German abstracts
NEWS	7	JUL 18	CA/CAPLUS patent coverage enhanced
NEWS	8	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS	9	JUL 30	USGENE now available on STN
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NEWS	11	AUG 06	BEILSTEIN updated with new compounds
NEWS	12	AUG 06	FSTA enhanced with new thesaurus edition
NEWS	13	AUG 13	CA/CAPLUS enhanced with additional kind codes for granted patents
NEWS	14	AUG 20	CA/CAPLUS enhanced with CAS indexing in pre-1907 records
NEWS	15	AUG 27	Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS	16	AUG 27	USPATOLD now available on STN
NEWS	17	AUG 28	CAS REGISTRY enhanced with additional experimental

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 NEWS 18 SEP 07 STN AnaVist, Version 2.0, now available with Derwent
 World Patents Index
 NEWS 19 SEP 13 FORIS renamed to SOFIS
 NEWS 20 SEP 13 INPADOCDB enhanced with monthly SDI frequency
 NEWS 21 SEP 17 CA/Caplus enhanced with printed CA page images from
 1967-1998
 NEWS 22 SEP 17 Caplus coverage extended to include traditional medicine
 patents

 NEWS EXPRESS 05 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2,
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 AND CURRENT DISCOVER FILE IS DATED 05 SEPTEMBER 2007.

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(FILE 'HOME' ENTERED AT 08:53:30 ON 18 SEP 2007)

FILE 'CAPLUS' ENTERED AT 08:53:42 ON 18 SEP 2007

=> s abb=on plu=on hydroformylat?

L1 7547 HYDROFORMYLAT?

=> s abb=on plu=on fatty (2w) acid

388640 FATTY

14 FATTIES

388644 FATTY

(FATTY OR FATTIES)

4437768 ACID

1591654 ACIDS

4940388 ACID

(ACID OR ACIDS)

L2 344310 FATTY (2W) ACID

=> s abb=on plu=on s fatty (2w) acid (2w) ester

3026127 S

388640 FATTY

14 FATTIES

388644 FATTY

(FATTY OR FATTIES)

164 S FATTY

(S(W) FATTY)

4437768 ACID

1591654 ACIDS

4940388 ACID

(ACID OR ACIDS)

606358 ESTER

445584 ESTERS

841346 ESTER

(ESTER OR ESTERS)

L3 8 S FATTY (2W) ACID (2W) ESTER

=> s abb=on plu=on phosphine (2w) ligands

71174 PHOSPHINE

17130 PHOSPHINES

75955 PHOSPHINE

(PHOSPHINE OR PHOSPHINES)

223515 LIGANDS

L4 4657 PHOSPHINE (2W) LIGANDS

=> s abb=on plu=on metal adj cation

1772332 METAL

884864 METALS

2143628 METAL

(METAL OR METALS)

271 ADJ

282025 CATION

188388 CATIONS

395740 CATION

(CATION OR CATIONS)

L5 0 METAL ADJ CATION

(METAL(W) ADJ(W) CATION)

=> s metal cation

1772332 METAL

884864 METALS

2143628 METAL

(METAL OR METALS)

282025 CATION

188388 CATIONS

395740 CATION

(CATION OR CATIONS)

L6 20536 METAL CATION

(METAL(W) CATION)

=> d his

(FILE 'HOME' ENTERED AT 08:53:30 ON 18 SEP 2007)

FILE 'CAPLUS' ENTERED AT 08:53:42 ON 18 SEP 2007

L1 7547 S ABB=ON PLU=ON HYDROFORMYLAT?

L2 344310 S ABB=ON PLU=ON FATTY (2W) ACID

L3 8 S ABB=ON PLU=ON S FATTY (2W) ACID (2W) ESTER

L4 4657 S ABB=ON PLU=ON PHOSPHINE (2W) LIGANDS

L5 0 S ABB=ON PLU=ON METAL ADJ CATION

L6 20536 S METAL CATION

=> s fatty acid (2w) ester?

388640 FATTY

14 FATTIES

388644 FATTY

(FATTY OR FATTIES)

4437768 ACID

1591654 ACIDS

4940388 ACID

(ACID OR ACIDS)

343279 FATTY ACID

(FATTY(W) ACID)

938749 ESTER?

L7 46267 FATTY ACID (2W) ESTER?

=> s 11 and 12

L8 88 L1 AND L2

=> s 18 and 14

L9 2 L8 AND L4

=> d 19 1-2 ibib abs

L9 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:71152 CAPLUS

DOCUMENT NUMBER: 142:158390

TITLE: Minimization of formation of phosphine ligand
degradation products or promotion of reversion of same
to useful phosphine ligands in
reaction of olefins

INVENTOR(S): Briggs, John R.; Peng, Wei-Jun; Roesch, Brian M.;
Abatjoglou, Anthony G.; Morrison, Donald L.

PATENT ASSIGNEE(S): Union Carbide Chemicals & Plastics Technology
Corporation, USA

SOURCE: PCT Int. Appl., 49 pp.

DOCUMENT TYPE: CODEN: PIXXD2
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: English
 PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005007602	A1	20050127	WO 2004-US20813	20040628
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2530739	A1	20050127	CA 2004-2530739	20040628
EP 1646599	A1	20060419	EP 2004-756323	20040628
R: DE, FR, NL				
BR 2004011948	A	20060829	BR 2004-11948	20040628
CN 1997616	A	20070711	CN 2004-80019013	20040628
US 2007100169	A1	20070503	US 2005-562602	20051228
PRIORITY APPLN. INFO.:			US 2003-484807P	P 20030703
			WO 2004-US20813	W 20040628

OTHER SOURCE(S): MARPAT 142:158390

AB Minimization of formation of phosphonium ion ligand degradation products during reaction of a polyunsatd. olefin or an unconjugated functionalized olefin, such as hydroformylation, in the presence of a transition metal-triorganophosphine ligand complex catalyst to form, as a product, byproduct, or intermediate product, a conjugated functionalized olefin having a carbon-carbon double bond conjugated to an α -electron-withdrawing group, such as, an α,β -unsatd. aldehyde, ketone, ester, acid, or nitrile involves conducting the reaction under selected conditions of conversion, temperature, pressure, or a combination thereof; and/or by selecting a triorganophosphine ligand with a specified steric and/or electronic property. Further, a process for reversion of phosphonium ion ligand degradation product(s) back to useful triorganophosphine ligand(s) involves treating a reaction product fluid containing the degradation product(s) with an inert gas, hydrogen, synthesis gas, or a mixture thereof under conditions sufficient to regenerate the triorganophosphine ligand(s).

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:97390 CAPLUS

DOCUMENT NUMBER: 128:129407

TITLE: Hydroformylation of polyunsaturated fatty substances

AUTHOR(S): Fell, B.

CORPORATE SOURCE: Institut fur Technische Chemie und Petrolchemie, Technische Hochschule Aachen, Aachen, D - 52056, Germany

SOURCE: Oils-Fats-Lipids 1995, Proceedings of the World Congress of the International Society for Fat Research, 21st, The Hague, Oct. 1-6, 1995 (1996), Meeting Date 1995, Volume 3, 461-463. P.J. Barnes & Associates: Bridgwater, UK.
CODEN: 65QOAT

DOCUMENT TYPE: Conference; General Review

LANGUAGE: English

AB A review, with .apprx.13 refs., on hydroformylation of unsatd. fatty polyunsatd. substances to obtain organic compound feedstocks. Homogeneous rhodium carbonyl/tertiary phosphine catalyst systems with a high excess of the tertiary phosphine as hydroformylation catalysts and separation of the catalyst from non-distillable reaction products and recycling of the catalyst system are discussed. Use of solid phase phosphines as complex ligands for the rhodium catalyst, rhodium carbonyl/tertiary phosphine catalyzed micellar hydroformylation in an aqueous-organic two-phase system, and a mixed homogeneous-heterogeneous hydroformylation procedure using rhodium carbonyl/tertiary phosphine catalyst systems that were as soluble in polar organic solvents, such as methanol, as in water are also discussed.

REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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FILE 'CAPLUS' ENTERED AT 08:53:42 ON 18 SEP 2007

L1 7547 S ABB=ON PLU=ON HYDROFORMYLAT?
L2 344310 S ABB=ON PLU=ON FATTY (2W) ACID
L3 8 S ABB=ON PLU=ON S FATTY (2W) ACID (2W) ESTER
L4 4657 S ABB=ON PLU=ON PHOSPHINE (2W) LIGANDS
L5 0 S ABB=ON PLU=ON METAL ADJ CATION
L6 20536 S METAL CATION
L7 46267 S FATTY ACID (2W) ESTER?
L8 88 S L1 AND L2
L9 2 S L8 AND L4

=> s l7 and l1

L10 35 L7 AND L1

=> s l10 not l9

L11 35 L10 NOT L9

=> s l11 and aldehyde

114006 ALDEHYDE

108451 ALDEHYDES

174070 ALDEHYDE

(ALDEHYDE OR ALDEHYDES)

L12 9 L11 AND ALDEHYDE

=> d l12 1-9 ibib abs

L12 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:913854 CAPLUS

TITLE: Producing polyurethane foam from natural oil

AUTHOR(S): Sanders, Aaron; Babb, David; Prange, Robbyn; Sonnenschein, Mark; Delk, Van; Derstine, Chris; Olson,

CORPORATE SOURCE: Kurt
 SOURCE: The Dow Chemical Company, Freeport, TX, 77541, USA
 Chemical Industries (Boca Raton, FL, United States)
 (2007), 115(Catalysis of Organic Reactions), 377-384
 CODEN: CHEIDI; ISSN: 0737-8025

PUBLISHER: CRC Press LLC
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB As part of the effort to reduce our dependence on fossil fuels, The Dow Chemical Company has been developing a seed oil based polyol to be used as a replacement to conventional petrochem. based polyether polyols in the production of flexible polyurethane foam. The general process for making natural oil polyols consists of four steps. In the first step, a vegetable oil (triglyceride) is transesterified with methanol, liberating glycerin, and forming fatty acid Me esters or FAMES. In the second step the FAMES are hydroformylated giving a complex mixture of FAMES that contain 0-3 formyl groups per chain. In the third step, the aldehydes and the remaining unsaturates are hydrogenated to yield a mixture of FAMES that contain 0-3 hydroxymethyl groups. Finally, the poly(hydroxymethyl)fatty esters are transesterified onto a suitable initiator to produce the natural oil polyol.

L12 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:390850 CAPLUS
 DOCUMENT NUMBER: 144:90002
 TITLE: Isomerizing hydroformylation of
 fatty acid esters:

Formation of ω - aldehydes
 AUTHOR(S): Behr, Arno; Obst, Dietmar; Westfechtel, Alfred
 CORPORATE SOURCE: Lehrstuhl fuer Technische Chemie A, Universitaet
 Dortmund, Dortmund, Germany
 SOURCE: European Journal of Lipid Science and Technology
 (2005), 107(4), 213-219

CODEN: EJLTFM; ISSN: 1438-7697
 PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB The isomerizing hydroformylation of fatty acid esters to oleochems. with an addnl. ω -standing aldehyde group can be performed at a relatively low temperature of 115° and a synthesis gas pressure of 20 bar. In the case of oleic acid ester, the best yield of linear aldehyde is 26%, in the case of linoleic acid ester, it is 34%. For both fatty compds., a strong hydrogenation side reaction is observed, which can be explained by a steering effect of the ester group. The ester function of the fatty compds. makes hydroformylation in the surrounding area of this group impossible. Reactions with the model substances Et crotonate and Et sorbate showed that hydrogenation predominates, leading to the corresponding saturated compds.

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:965199 CAPLUS
 DOCUMENT NUMBER: 141:412736
 TITLE: Aldehyde and alcohol compositions derived
 from seed oils

INVENTOR(S): Lysenko, Zenon; Morrison, Donald L.; Babb, David A.;
 Bunning, Donald L.; Derstine, Christopher W.;

Current List

Serial No.: 10/551854

Gilchrist, James H.; Jouett, Ray H.; Kanel, Jeffrey S.; Olson, Kurt D.; Peng, Wei-Jun; Phillips, Joe D.; Roesch, Brian M.; Sanders, Aaron W.; Schrock, Alan K.; Thomas, P. J.

PATENT ASSIGNEE(S): Dow Global Technologies Inc., USA

SOURCE: PCT Int. Appl., 35 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004096744	A2	20041111	WO 2004-US12246	20040422
WO 2004096744	A3	20050120		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2523433	A1	20041111	CA 2004-2523433	20040422
EP 1620387	A2	20060201	EP 2004-750403	20040422
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK			
CN 1780808	A	20060531	CN 2004-80011116	20040422
BR 2004010529	A	20060620	BR 2004-10529	20040422
US 2006193802	A1	20060831	US 2005-551854	20050930
IN 2005CN02747	A	20070831	IN 2005-CN2747	20051024
PRIORITY APPLN. INFO.:			US 2003-465663P	P 20030425
			WO 2004-US12246	W 20040422

OTHER SOURCE(S): MARPAT 141:412736

AB An aldehyde composition derived by hydroformylation of a transesterified seed oil comprises a mixture of formyl-substituted fatty acids or fatty acid esters comprising from 10 to 95% of monoformyl, from 1 to 65% of diformyl, and from 0.1 to 10% of triformyl-substituted fatty acids or fatty acid esters with a diformyl to triformyl ratio > 5/1. The aldehyde mixture preferably contains from 3 to 20% of sats., and from 1 to 20% of unsaturates. An alc. composition derived by hydrogenation of the aldehyde composition comprises a mixture of hydroxymethyl-substituted fatty acids or fatty acid esters comprising from 10 to 95% of monoalc. (monohydroxymethyl), from 1 to 65% of diol (dihydroxymethyl), from 0.1 to 10% of triol (trihydroxymethyl)-substituted fatty acids or fatty acid esters. The alc. mixture preferably contains from 3 to 35% of sats., and < 10% of unsaturates. The alc. composition may be converted into an oligomeric polyol for use in the manufacture of polyurethane slab stock flexible foams.

L12 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:764001 CAPLUS

DOCUMENT NUMBER: 131:352840

TITLE: Method and catalysts for the hydroformylation

of olefins in an aqueous microemulsion into aldehydes

INVENTOR(S): Schomacker, Reinhard; Haumann, Marco; Koch, Herbert
 PATENT ASSIGNEE(S): RWE-DEA AG fuer Mineraloel und Chemie, Germany
 SOURCE: PCT Int. Appl., 21 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9961401	A1	19991202	WO 1999-DE1521	19990521
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19822968	A1	19991202	DE 1998-19822968	19980525
AU 9951492	A	19991213	AU 1999-51492	19990521
EP 1084094	A1	20010321	EP 1999-936298	19990521
EP 1084094	B1	20030730		
R: AT, BE, DE, DK, ES, FR, GB, IT, NL, SE				
JP 2002516300	T	20020604	JP 2000-550813	19990521
AT 246164	T	20030815	AT 1999-936298	19990521
ES 2200534	T3	20040301	ES 1999-936298	19990521
US 6452055	B1	20020917	US 2001-700827	20010105
PRIORITY APPLN. INFO.:			DE 1998-19822968	A 19980525
			WO 1999-DE1521	W 19990521

AB Olefins (e.g., 1-dodecene) are efficiently hydroformylated by reacting them with hydrogen and carbon monoxide in a liquid, aqueous-organic reaction medium in the presence of a water-soluble hydroformylation catalyst [e.g., trisodium tris(3-sulphophenyl)phosphine and Ph(CO)₂(acac)]. During the hydroformylation, the aqueous-organic medium is present in the form of a microemulsion which is formed from an oil phase, containing the olefin or the olefin and the hydroformylation products (e.g., n-tridecanal and 2-methyldodecanal), and from the aqueous phase, containing the water-soluble complex catalyst, and from a nonionic surfactant (e.g., Marlupal 013/70).

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1990:177998 CAPLUS

DOCUMENT NUMBER: 112:177998

TITLE: Comparison of the preparation of higher fatty alcohols using primary processes for hydroformylation, hydrocarboxymethylation, and epoxidation of alkenes

AUTHOR(S): Macho, V.; Jurecek, L.

CORPORATE SOURCE: Slov. Vys. Sk. Tech., Chem.-Technol. Fak., Bratislava, Czech.

SOURCE: Petrochemia (1989), 29(2), 33-43

CODEN: PTCMB7; ISSN: 0370-2154

DOCUMENT TYPE: Journal

LANGUAGE: Slovak

AB Hydrocarboxymethylation of C10-13 internal n-alkenes was recommended for the title process, and gave C10-14 fatty acid Me esters via $\leq 55.6\%$ isomerization to 1-alkenes by the pyridine- $\text{Co}_2(\text{CO})_8$ catalyst. Epoxidn.-hydrogenolysis of C10-18 1-alkenes proceeded with $\geq 90\%$ selectivity for primary alcs. Hydroformylation of C10-13 n-alkenes to give C11-14 fatty alcs. was useful only for 1-alkenes, but also gave significant amts. of aldehydes and/or alkanes.

L12 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1989:59869 CAPLUS
DOCUMENT NUMBER: 110:59869
TITLE: Effect of some additives and impurities on the yield of lower aliphatic aldehydes during fractionation
AUTHOR(S): Kuz'mina, L. S.; Maiorova, L. V.
CORPORATE SOURCE: USSR
SOURCE: Zhurnal Prikladnoi Khimii (Sankt-Peterburg, Russian Federation) (1988), 61(9), 2068-70
CODEN: ZPKHAB; ISSN: 0044-4618
DOCUMENT TYPE: Journal
LANGUAGE: Russian

AB The yield of butyraldehydes and isovaleraldehyde during their recovery by fractionation from the ethylene or propylene hydroformylation products containing residual Co catalyst increased on addition of H_2O or n-hydroxycaprolactam esters of C10-16 fatty acids. The yield of isobutyraldehyde was independent of the content of impurities (Bu alcs., HCO_2Bu , butyric acids) in hydroformylation products containing no residual catalyst, whereas that of n-butyraldehyde decreased with increasing content of impurities.

L12 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1978:152052 CAPLUS
DOCUMENT NUMBER: 88:152052
TITLE: Fatty acid esters
PATENT ASSIGNEE(S): Imperial Chemical Industries Ltd., UK
SOURCE: Neth. Appl., 5 pp.
CODEN: NAXXAN
DOCUMENT TYPE: Patent
LANGUAGE: Dutch
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 7702172	A	19770921	NL 1977-2172	19770301
GB 1507641	A	19780419	GB 1976-11145	19770218
AU 7722618	A	19780831	AU 1977-22618	19770224

PRIORITY APPLN. INFO.: GB 1976-11145 A 19760319

AB Fatty acid esters of long-chain alcs. were prepared by hydroformylating an α -alkene fraction and intramol. oxidation-reduction of the resulting aldehyde mixture in the presence of Al isopropanolate.

L12 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1977:170875 CAPLUS
DOCUMENT NUMBER: 86:170875
TITLE: Separation of oxo-synthesis products
INVENTOR(S): Altsybeeva, A. I.; Aristovich, V. Yu.; Alekseeva, K.

Serial No.: 10/551854

PATENT ASSIGNEE(S): A.; Kuzinova, T. M.; Kuz'mina, L. S.; Levin, S. Z.;
SOURCE: Maiorova, L. V.
USSR
U.S.S.R. From: Otkrytiya, Izobret., Prom. Obraztsy,
Tovarnye Znaki 1976, 53(46), 85-6.
CODEN: URXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Russian
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
SU 539023	A1	19761215	SU 1975-2096408	19750116
PRIORITY APPLN. INFO.:			SU 1975-2096408	A 19750116
AB	Esters of C10-C16 synthetic fatty acids and N-hydroxyethylcaprolactam or -benzotriazole were added (0.2 weight%) as stabilizers to oxo-synthesis products.			

L12 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1974:135193 CAPLUS
DOCUMENT NUMBER: 80:135193
TITLE: Synthetic wax
INVENTOR(S): Yamauchi, Takeo; Suzuki, Takeshi
PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 48067203	A	19730913	JP 1971-102034	19711216
PRIORITY APPLN. INFO.:			JP 1971-102034	A 19711216
AB	A C>16 olefin mixture was hydroformylated and the mixed aldehyde was oxidized to a carboxylic acid mixture which on esterification with MeOH, glycols, or other alcs. gave a good wax. Thus, a C20-8 α -olefin mixt was treated with a CO-H mixture at 110.deg. in an autoclave in the presence of Rh acetate and the product oxidized with air at 70.deg. to give C21-9 fatty acid mixture of acid number 134.6, containing .sim.50% 2-Me isomers, which was converted to Me ester, m. 49.deg. and blended with paraffin wax and mineral spirits to give a good wax paste.			

=> d his

(FILE 'HOME' ENTERED AT 08:53:30 ON 18 SEP 2007)

FILE 'CAPLUS' ENTERED AT 08:53:42 ON 18 SEP 2007

L1 7547 S ABB=ON PLU=ON HYDROFORMYLAT?
L2 344310 S ABB=ON PLU=ON FATTY (2W) ACID
L3 8 S ABB=ON PLU=ON S FATTY (2W) ACID (2W) ESTER
L4 4657 S ABB=ON PLU=ON PHOSPHINE (2W) LIGANDS
L5 0 S ABB=ON PLU=ON METAL ADJ CATION
L6 20536 S METAL CATION
L7 46267 S FATTY ACID (2W) ESTER?

L8 88 S L1 AND L2
 L9 2 S L8 AND L4
 L10 35 S L7 AND L1
 L11 35 S L10 NOT L9
 L12 9 S L11 AND ALDEHYDE

=> s mono adj alcohol
 146610 MONO
 274 MONOS
 146872 MONO
 (MONO OR MONOS)
 271 ADJ
 268897 ALCOHOL
 175850 ALCOHOLS
 411430 ALCOHOL
 (ALCOHOL OR ALCOHOLS)
 599507 ALC
 194274 ALCS
 696591 ALC
 (ALC OR ALCS)
 858248 ALCOHOL
 (ALCOHOL OR ALC)
 L13 0 MONO ADJ ALCOHOL
 (MONO (W) ADJ (W) ALCOHOL)

=> s mono alcohol
 146610 MONO
 274 MONOS
 146872 MONO
 (MONO OR MONOS)
 268897 ALCOHOL
 175850 ALCOHOLS
 411430 ALCOHOL
 (ALCOHOL OR ALCOHOLS)
 599507 ALC
 194274 ALCS
 696591 ALC
 (ALC OR ALCS)
 858248 ALCOHOL
 (ALCOHOL OR ALC)
 L14 195 MONO ALCOHOL
 (MONO (W) ALCOHOL)

=> s diol
 79202 DIOL
 24604 DIOLS
 L15 93005 DIOL
 (DIOL OR DIOLS)

=> s triol
 13778 TRIOL
 2719 TRIOLS
 L16 15205 TRIOL
 (TRIOL OR TRIOLS)

=> s 115 and 65 (2w) percent
 422705 65
 92022 PERCENT
 1909 PERCENTS

93656 PERCENT

(PERCENT OR PERCENTS)

254 65 (2W) PERCENT

L17 2 L15 AND 65 (2W) PERCENT

=> d 117 1-2 ibib abs

L17 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:947720 CAPLUS

DOCUMENT NUMBER: 139:382727

TITLE: Polyurethane/ureas useful for the production of spandex and a process for their production

INVENTOR(S): Lawrey, Bruce D.

PATENT ASSIGNEE(S): Bayer Corporation, USA

SOURCE: Eur. Pat. Appl., 14 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1367074	A1	20031203	EP 2003-11475	20030521
EP 1367074	B1	20060920		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2003224683	A1	20031204	US 2002-159011	20020530
US 6903179	B2	20050607		
MX 2003PA04523	A	20041029	MX 2003-PA4523	20030522
CA 2430045	A1	20031130	CA 2003-2430045	20030526
BR 2003001948	A	20040824	BR 2003-1948	20030528
JP 2004035880	A	20040205	JP 2003-152568	20030529
CN 1461759	A	20031217	CN 2003-137895	20030530
PRIORITY APPLN. INFO.:			US 2002-159011	A 20020530

AB Segmented polyurethane-ureas with good mech. and thermal properties and useful for the production of spandex are produced by chain extending, in the presence of a solvent, an isocyanate-terminated prepolymer prepared by reacting a stoichiometric excess of an isocyanate with an isocyanate-reactive component which includes: (1) from about 5 to about 30 equiv percent of a polyoxypropylene diol having a mol. weight of at least 1500 Da and an unsatn. level less than or equal to 0.03 meq/g; (2) from about 20 to about 60 equiv percent of a polytetramethylene ether glycol having a mol. weight less than 1000 Da; and (3) from about 25 to about 65 equiv percent of a polytetramethylene ether glycol having a mol. weight greater than or equal to 1000 Da. Thus, polyoxypropylene diol having mol. weight 4000 Da (weight% 45.6), polytetramethylene glycol having mol. weight 2000 Da (weight% 49.7), and polytetramethylene glycol having mol. weight 250 Da (weight % 4.7%) was reacted with MDI to obtain a prepolymer, which was subsequently reacted with ethylene diamine (mol.% 82.5) and isophorone diamine (mo.% 15) in the presence of diethylamine (mol.% 2.5) to give a block polyoxyalkylene-polyurea-polyurethane, which after spinning into a fiber (nominal denier 40) exhibited modulus at 100%, at 200%, and at 300% 0.062, 0.115, and 0.179 cN/dtex, resp.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:747901 CAPLUS
 DOCUMENT NUMBER: 139:262188
 TITLE: Polyurethane/ureas useful for the production of
 spandex and a process for their production
 INVENTOR(S): Lawrey, Bruce D.
 PATENT ASSIGNEE(S): Bayer Corporation, USA
 SOURCE: U.S., 8 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6624281	B1	20030923	US 2002-158616	20020530
EP 1367072	A1	20031203	EP 2003-11473	20030521
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CA 2430046	A1	20031130	CA 2003-2430046	20030526
BR 2003001726	A	20040824	BR 2003-1726	20030526
MX 2003PA04695	A	20050214	MX 2003-PA4695	20030528
JP 2004035877	A	20040205	JP 2003-152183	20030529
CN 1461760	A	20031217	CN 2003-138295	20030530

PRIORITY APPLN. INFO.:

US 2002-158616 A 20020530

AB Segmented polyurethane-ureas with good mech. and thermal properties and useful for the production of spandex are produced by chain extending, in the presence of a solvent, an isocyanate-terminated prepolymer prepared by reacting a stoichiometric excess of an isocyanate with an isocyanate-reactive component which includes: (1) from about 5 to about 30 equiv percent of a polyoxypropylene diol having a mol. weight of at least 1500 Da and an unsatn. level less than or equal to 0.03 meq/g; (2) from about 20 to about 60 equiv percent of a polytetramethylene ether glycol having a mol. weight less than 1000 Da; and (3) from about 25 to about 65 equiv percent of a polytetramethylene ether glycol having a mol. weight greater than or equal to 1000 Da. Thus, polyoxypropylene diol having mol. weight 4000 Da (weight% 45.6), polytetramethylene glycol having mol. weight 2000 Da (weight% 49.7), and polytetramethylene glycol having mol. weight 250 Da (weight % 4.7%) was reacted with MDI to obtain a prepolymer, which was subsequently reacted with ethylene diamine (mol.% 82.5) and isophorone diamine (mo.% 15) in the presence of diethylamine (mol.% 2.5) to give a block polyoxyalkylene-polyurea-polyurethane, which after spinning into a fiber (nominal denier 40) exhibited modulus at 100%, at 200%, and at 300% 0.062, 0.115, and 0.179 cN/dtex, resp.

REFERENCE COUNT:

19

THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 08:53:30 ON 18 SEP 2007)

FILE 'CAPLUS' ENTERED AT 08:53:42 ON 18 SEP 2007

L1 7547 S ABB=ON PLU=ON HYDROFORMYLAT?
 L2 344310 S ABB=ON PLU=ON FATTY (2W) ACID
 L3 8 S ABB=ON PLU=ON S FATTY (2W) ACID (2W) ESTER
 L4 4657 S ABB=ON PLU=ON PHOSPHINE (2W) LIGANDS
 L5 0 S ABB=ON PLU=ON METAL ADJ CATION

L6 20536 S METAL CATION
 L7 46267 S FATTY ACID (2W) ESTER?
 L8 88 S L1 AND L2
 L9 2 S L8 AND L4
 L10 35 S L7 AND L1
 L11 35 S L10 NOT L9
 L12 9 S L11 AND ALDEHYDE
 L13 0 S MONO ADJ ALCOHOL
 L14 195 S MONO ALCOHOL
 L15 93005 S DIOL
 L16 15205 S TRIOL
 L17 2 S L15 AND 65 (2W) PERCENT

=> l15 and l16 and l14

L15 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.
 For a list of commands available to you in the current file, enter
 "HELP COMMANDS" at an arrow prompt (=>).

=> s l15 and l16

L18 5910 L15 AND L16

=> s l18 and ratio

1215241 RATIO

322027 RATIOS

1432783 RATIO

(RATIO OR RATIOS)

L19 486 L18 AND RATIO

=> s l19 and five to one

295941 FIVE

71 FIVES

296005 FIVE

(FIVE OR FIVES)

2412282 ONE

183218 ONES

2557497 ONE

(ONE OR ONES)

603 FIVE TO ONE

(FIVE(1W)ONE)

L20 0 L19 AND FIVE TO ONE

=> s l19 and l1

L21 1 L19 AND L1

=> d l21 ibib

L21 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:965199 CAPLUS

DOCUMENT NUMBER: 141:412736

TITLE: Aldehyde and alcohol compositions derived from seed oils

INVENTOR(S): Lysenko, Zenon; Morrison, Donald L.; Babb, David A.;
 Bunning, Donald L.; Derstine, Christopher W.;
 Gilchrist, James H.; Jouett, Ray H.; Kanel, Jeffrey
 S.; Olson, Kurt D.; Peng, Wei-Jun; Phillips, Joe D.;
 Roesch, Brian M.; Sanders, Aaron W.; Schrock, Alan K.;
 Thomas, P. J.

PATENT ASSIGNEE(S): Dow Global Technologies Inc., USA

Serial No.: 10/551854

SOURCE: PCT Int. Appl., 35 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004096744	A2	20041111	WO 2004-US12246	20040422
WO 2004096744	A3	20050120		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2523433	A1	20041111	CA 2004-2523433	20040422
EP 1620387	A2	20060201	EP 2004-750403	20040422
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK			
CN 1780808	A	20060531	CN 2004-80011116	20040422
BR 2004010529	A	20060620	BR 2004-10529	20040422
US 2006193802	A1	20060831	US 2005-551854	20050930
IN 2005CN02747	A	20070831	IN 2005-CN2747	20051024
PRIORITY APPLN. INFO.:			US 2003-465663P	P 20030425
			WO 2004-US12246	W 20040422
OTHER SOURCE(S):	MARPAT 141:412736			

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(FILE 'HOME' ENTERED AT 08:53:30 ON 18 SEP 2007)

FILE 'CAPLUS' ENTERED AT 08:53:42 ON 18 SEP 2007

L1 7547 S ABB=ON PLU=ON HYDROFORMYLAT?
L2 344310 S ABB=ON PLU=ON FATTY (2W) ACID
L3 8 S ABB=ON PLU=ON S FATTY (2W) ACID (2W) ESTER
L4 4657 S ABB=ON PLU=ON PHOSPHINE (2W) LIGANDS
L5 0 S ABB=ON PLU=ON METAL ADJ CATION
L6 20536 S METAL CATION
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L15 93005 S DIOL
L16 15205 S TRIOL
L17 2 S L15 AND 65 (2W) PERCENT
L18 5910 S L15 AND L16
L19 486 S L18 AND RATIO

L20 0 S L19 AND FIVE TO ONE
L21 1 S L19 AND L1

=> s l14 and l3
L22 0 L14 AND L3

=> s alcohol
268897 ALCOHOL
175850 ALCOHOLS
411430 ALCOHOL
(ALCOHOL OR ALCOHOLS)
599507 ALC
194274 ALCS
696591 ALC
(ALC OR ALCS)
L23 858248 ALCOHOL
(ALCOHOL OR ALC)

=> s l23 and l7
L24 13110 L23 AND L7

=> s l24 and l15
L25 242 L24 AND L15

=> s l25 and l16
L26 23 L25 AND L16

=> s l26 not l21
L27 22 L26 NOT L21

=> l27 and l4
L27 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s l27 and l4
L28 0 L27 AND L4

=> d l27 1-22 ibib

L27 ANSWER 1 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2007:348602 CAPLUS
DOCUMENT NUMBER: 147:51914
TITLE: Production of polyols from canola oil and their
chemical identification and physical properties
AUTHOR(S): Narine, Suresh S.; Yue, Jin; Kong, Xiaohua
CORPORATE SOURCE: Department of Agricultural Food and Nutritional
Science, 4-10 Agricultural/Forestry Centre, University
of Alberta, Edmonton, AB, T6G 2P5, Can.
SOURCE: Journal of the American Oil Chemists' Society (2007),
84(2), 173-179
CODEN: JAOCA7; ISSN: 0003-021X
PUBLISHER: Springer
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:1225815 CAPLUS
 DOCUMENT NUMBER: 143:462032
 TITLE: Aliphatic intermediate products
 AUTHOR(S): Behr, Arno; Arnold, Joerg; Bahke, Philip; Dehn, Dietmar; Dettmer, Michael; Dugal, Markus; Fischer, Achim; Fornika, Roland; Frauenkron, Matthias; Gutsche, Bernhard; Heidbreder, Andreas; Keim, Wilhelm; Knebel, Joachim; Melder, Johann-Peter; Mielke, Ingolf; Noweck, Klaus; Pelzer, Gerit; Rothstock, Sonja; Schoebel, Rene; Schuler, Joachim; Schulte, Christian; Schwerin, Albrecht; Seuster, Joachim; Wegener, Gerhard; Woelfert, Andreas
 CORPORATE SOURCE: Fachbereich Bio- und Chemieingenieurwesen, Lehrstuhl fuer Technische Chemie A, Universitaet Dortmund, Dortmund, 44227, Germany
 SOURCE: Winnacker-Kuechler: Chemische Technik (5. Auflage) (2005), Volume 5, 1-266. Editor(s): Dittmeyer, Roland. Wiley-VCH Verlag GmbH & Co. KGaA: Weinheim, Germany.
 CODEN: 69GEIJ; ISBN: 3-527-30430-4
 DOCUMENT TYPE: Conference; General Review
 LANGUAGE: German
 REFERENCE COUNT: 512 THERE ARE 512 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 3 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:263979 CAPLUS
 DOCUMENT NUMBER: 138:382115
 TITLE: Isolation, structural elucidation, and inhibitory effects of terpenoid and lipid constituents from sunflower pollen on Epstein-Barr virus early antigen induced by tumor promoter, TPA
 AUTHOR(S): Ukiya, Motohiko; Akihisa, Toshihiro; Tokuda, Harukuni; Koike, Kazuo; Takayasu, Junko; Okuda, Hiroki; Kimura, Yumiko; Nikaido, Tamotsu; Nishino, Hoyoku
 CORPORATE SOURCE: College of Science and Technology, Nihon University, Tokyo, Chiyoda-ku, 101-8308, Japan
 SOURCE: Journal of Agricultural and Food Chemistry (2003), 51(10), 2949-2957
 CODEN: JAFCAU; ISSN: 0021-8561
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 4 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:790216 CAPLUS
 DOCUMENT NUMBER: 137:313302
 TITLE: Lubricating oils based on polyhydric alcohols with heterogeneous fatty acid chain lengths
 INVENTOR(S): Kodali, Dharm R.; Nivens, Scott C.
 PATENT ASSIGNEE(S): Cargill Incorporated, USA
 SOURCE: U.S., 23 pp., Cont.-in-part of U.S. 6,278,006.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6465401	B1	20021015	US 2000-487700	20000119
US 6278006	B1	20010821	US 1999-233617	19990119
AT 343621	T	20061115	AT 2000-909928	20000119
US 2003176300	A1	20030918	US 2002-253742	20020924
US 6943262	B2	20050913		
US 2005176597	A1	20050811	US 2005-72071	20050304
PRIORITY APPLN. INFO.:			US 1999-233617	A2 19990119
			US 2000-487700	A1 20000119
			US 2002-253742	A3 20020924

OTHER SOURCE(S): MARPAT 137:313302

REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 5 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:219900 CAPLUS

DOCUMENT NUMBER: 130:253642

TITLE: Warp sizing composition for low-temperature sizing

INVENTOR(S): Bloch, Joachim

PATENT ASSIGNEE(S): Chimitex S.A.R.L., Fr.

SOURCE: Eur. Pat. Appl., 7 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 905301	A1	19990331	EP 1997-115138	19970902
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRIORITY APPLN. INFO.:			EP 1997-115138	19970902
REFERENCE COUNT: 7			THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT	

L27 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:256011 CAPLUS

DOCUMENT NUMBER: 129:34268

TITLE: Plastic lens material

INVENTOR(S): Ichikawa, Yukio; Sakagami, Teruo

PATENT ASSIGNEE(S): Kureha Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokyo Koho, 15 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10104401	A	19980424	JP 1997-203058	19970729
PRIORITY APPLN. INFO.:			JP 1996-205743	A 19960805

L27 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:764606 CAPLUS
DOCUMENT NUMBER: 128:49779
TITLE: In-process analysis of multifunctional esters by NIR spectroscopy
AUTHOR(S): Curtin, David L.
CORPORATE SOURCE: Stepan Company, Northfield, IL, USA
SOURCE: AT-PROCESS (1997), 3(1,2), 18-25
CODEN: APJCFR; ISSN: 1077-419X
PUBLISHER: InfoScience Services
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 8 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:483087 CAPLUS
DOCUMENT NUMBER: 127:96370
TITLE: Transparent optical disk substrates with low water absorption and birefringence comprising (meth)acrylate polymers
INVENTOR(S): Kikawa, Hitoshi; Takagi, Masaru; Yamagishi, Hiroshi
PATENT ASSIGNEE(S): Lion Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09176239	A	19970708	JP 1995-339805	19951227
PRIORITY APPLN. INFO.:			JP 1995-339805	19951227

L27 ANSWER 9 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:483086 CAPLUS
DOCUMENT NUMBER: 127:96369
TITLE: Transparent optical fiber materials with low water absorption and birefringence comprising (meth)acrylate polymers, and optical fibers therefrom
INVENTOR(S): Kikawa, Hitoshi; Takagi, Masaru; Yamagishi, Hiroshi
PATENT ASSIGNEE(S): Lion Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09176238	A	19970708	JP 1995-339804	19951227
PRIORITY APPLN. INFO.:			JP 1995-339804	19951227

L27 ANSWER 10 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:374800 CAPLUS
DOCUMENT NUMBER: 126:344692
TITLE: Anti-foam system based on hydrocarbon polymers and hydrophobic particulate solids for dishwashing

INVENTOR(S): detergents
 Angevaare, Petrus Adrianus J. M.; Beers, Olaf; Yorke,
 John William H.; Garrett, Peter Robert; Tartakovsky,
 Alla
 PATENT ASSIGNEE(S): Unilever N.V., Neth.; Unilever Plc
 SOURCE: PCT Int. Appl., 51 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9713832	A1	19970417	WO 1996-EP3660	19960820
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA				
CA 2233201	A1	19970417	CA 1996-2233201	19960820
AU 9669258	A	19970430	AU 1996-69258	19960820
AU 729402	B2	20010201		
EP 876457	A1	19981111	EP 1996-930058	19960820
EP 876457	B1	20000524		
R: DE, ES, FR, GB, IT				
HU 9802733	A2	19990329	HU 1998-2733	19960820
HU 9802838	A2	19990329	HU 1998-2838	19960820
BR 9610811	A	19990713	BR 1996-10811	19960820
ES 2146900	T3	20000816	ES 1996-930058	19960820
ZA 9608438	A	19980407	ZA 1996-8438	19961007
PRIORITY APPLN. INFO.:			US 1995-540285	A 19951006
			WO 1996-EP3660	W 19960820
OTHER SOURCE(S):		MARPAT 126:344692		

L27 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1997:325443 CAPLUS
 DOCUMENT NUMBER: 126:344103
 TITLE: Castor oil-based polyurethanes. 1. Structural characterization of castor oil - nature of intact glycerides and distribution of hydroxyl groups
 AUTHOR(S): Tran, Ngoc Buu; Vialle, Jean; Pham, Quang Tho
 CORPORATE SOURCE: Centre Service d'Analyse d'Experimentation, Ho Chi Minh-Ville, Vietnam
 SOURCE: Polymer (1997), 38(10), 2467-2473
 CODEN: POLMAG; ISSN: 0032-3861
 PUBLISHER: Elsevier
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1997:223402 CAPLUS
 DOCUMENT NUMBER: 126:213112
 TITLE: Transparent light-weight acrylic optical conductors
 INVENTOR(S): Kikawa, Hitoshi; Takagi, Masaru; Yamagishi, Hiroshi; Inagaki, Takeo

Serial No.: 10/551854

PATENT ASSIGNEE(S): Lion Corp, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09012631	A	19970114	JP 1995-160860	19950627
PRIORITY APPLN. INFO.:			JP 1995-160860	19950627

L27 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1997:197813 CAPLUS
DOCUMENT NUMBER: 126:186518
TITLE: Preparation of polyfunctional α,β -unsaturated carboxylic acid esters
INVENTOR(S): Kikawa, Hitoshi; Takagi, Masaru; Yamagishi, Hiroshi
PATENT ASSIGNEE(S): Lion Corp, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09003004	A	19970107	JP 1995-156384	19950622
PRIORITY APPLN. INFO.:			JP 1995-156384	19950622
OTHER SOURCE(S):		MARPAT 126:186518		

L27 ANSWER 14 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1996:87741 CAPLUS
DOCUMENT NUMBER: 124:118275
TITLE: Higher aliphatic triols, manufacture thereof, and esters of the triols with unsaturated aliphatic carboxylic acids
INVENTOR(S): Kikawa, Hitoshi; Yamagishi, Hiroshi; Suzuki, Noriko; Asao, Yoshiichi
PATENT ASSIGNEE(S): Lion Corp, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07304701	A	19951121	JP 1995-83390	19950315
JP 2847210	B2	19990113		
PRIORITY APPLN. INFO.:			JP 1995-83390	A 19950315
			JP 1994-71542	19940316
OTHER SOURCE(S):		MARPAT 124:118275		

L27 ANSWER 15 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1994:579110 CAPLUS

Serial No.: 10/551854

DOCUMENT NUMBER: 121:179110
TITLE: Process for the selective production of fatty acid monoesters of diols and triols using zeolitic catalysts
INVENTOR(S): Aracil Mira, Jose; Corma Canos, Avelino; Martinez Rodriguez, Mercedes; Sanchez Menendez, Nieves
PATENT ASSIGNEE(S): Consejo Superior de Investigaciones Cientificas, Spain; Universidad Politecnica de Valencia; Universidad Complutense
SOURCE: PCT Int. Appl., 14 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Spanish
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9413617	A1	19940623	WO 1993-ES100	19931216
W: CA, JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
ES 2062928	A1	19941216	ES 1992-2555	19921217
ES 2062928	B1	19950716		
EP 627404	A1	19941207	EP 1994-902781	19931216
EP 627404	B1	19970820		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
AT 157078	T	19970915	AT 1994-902781	19931216
ES 2107173	T3	19971116	ES 1994-902781	19931216
PRIORITY APPLN. INFO.:			ES 1992-2555	A 19921217
			WO 1993-ES100	W 19931216
OTHER SOURCE(S):	CASREACT 121:179110			

L27 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1991:645673 CAPLUS
DOCUMENT NUMBER: 115:245673
TITLE: Electrically conductive paste for via hole filler and ceramic multilayered wiring substrate using it
INVENTOR(S): Matsuyama, Shirohito
PATENT ASSIGNEE(S): Narumi China Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03138806	A	19910613	JP 1989-276428	19891024
PRIORITY APPLN. INFO.:			JP 1989-276428	19891024

L27 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1991:88653 CAPLUS
DOCUMENT NUMBER: 114:88653
TITLE: Topical pharmaceuticals containing buprenorphine salts
INVENTOR(S): Szuktak, Joan Bolduc; Manring, Gary Lee; Smith, Ronald Lee; Drust, Eugene George
PATENT ASSIGNEE(S): Norwich Eaton Pharmaceuticals, Inc., USA
SOURCE: Eur. Pat. Appl., 10 pp.

Serial No.: 10/551854

DOCUMENT TYPE: CODEN: EPXXDW
LANGUAGE: Patent
FAMILY ACC. NUM. COUNT: English
PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 368409	A2	19900516	EP 1989-202799	19891107
EP 368409	A3	19901219		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
CA 2002299	A1	19900510	CA 1989-2002299	19891106
JP 02191215	A	19900727	JP 1989-293763	19891110
PRIORITY APPLN. INFO.:			US 1988-269943	A 19881110

L27 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1991:49578 CAPLUS
DOCUMENT NUMBER: 114:49578
TITLE: Topical pharmaceuticals containing buprenorphine
INVENTOR(S): Drust, Eugene George; Smith, Ronald Lee; Kasting, Gerald Bruce; Szkutak, Joan Bolduc
PATENT ASSIGNEE(S): Norwich Eaton Pharmaceuticals, Inc., USA
SOURCE: Eur. Pat. Appl., 8 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 368406	A2	19900516	EP 1989-202795	19891107
EP 368406	A3	19901219		
EP 368406	B1	19930728		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
US 5026556	A	19910625	US 1988-269944	19881110
CA 2002300	A1	19900510	CA 1989-2002300	19891106
CA 2002300	C	19950411		
AT 91894	T	19930815	AT 1989-202795	19891107
JP 02191214	A	19900727	JP 1989-293762	19891110
JP 2930623	B2	19990803		
PRIORITY APPLN. INFO.:			US 1988-269944	A 19881110
			EP 1989-202795	A 19891107

L27 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1990:181336 CAPLUS
DOCUMENT NUMBER: 112:181336
TITLE: Fiber finishing agents for high-speed friction false-twist draw-texturing process
INVENTOR(S): Furuichi, Toshimoto; Doi, Tetsuo; Munekyo, Takeshi
PATENT ASSIGNEE(S): Matsumoto Yushi-Seiyaku Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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Serial No.: 10/551854

JP 01298281	A	19891201	JP 1988-126316	19880524
PRIORITY APPLN. INFO.:			JP 1988-126316	19880524

L27 ANSWER 20 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1977:504141 CAPLUS
DOCUMENT NUMBER: 87:104141
TITLE: Fluidities and lubricities of branched-chain fatty acids and their esters in rolling
AUTHOR(S): Kamita, Toru; Yoshida, Takao
CORPORATE SOURCE: Maruzen Sekiyu Co., Saitama, Japan
SOURCE: Junkatsu (1976), 21(12), 819-23
CODEN: JUNKAU; ISSN: 0449-4156
DOCUMENT TYPE: Journal
LANGUAGE: Japanese

L27 ANSWER 21 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1967:12136 CAPLUS
DOCUMENT NUMBER: 66:12136
ORIGINAL REFERENCE NO.: 66:2399a,2402a
TITLE: Water-oil emulsions
INVENTOR(S): Walther, Guntram; Stein, Werner
PATENT ASSIGNEE(S): DEHYDAG Deutsche Hydrierwerke G.m.b.H.
SOURCE: U.S., 3 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3281374		19661025	US 1963-263733	19630308
PRIORITY APPLN. INFO.:			DE	19620314

L27 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1954:5600 CAPLUS
DOCUMENT NUMBER: 48:5600
ORIGINAL REFERENCE NO.: 48:1034g-i
TITLE: Monoesters of polyhydric alcohols
INVENTOR(S): Malkemus, John D.
PATENT ASSIGNEE(S): Colgate-Palmolive-Peet Co.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2655522		19531013	US 1946-664983	19460425

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(FILE 'HOME' ENTERED AT 08:53:30 ON 18 SEP 2007)

FILE 'CAPLUS' ENTERED AT 08:53:42 ON 18 SEP 2007

L1 7547 S ABB=ON PLU=ON HYDROFORMYLAT?

L2 344310 S ABB=ON PLU=ON FATTY (2W) ACID
 L3 8 S ABB=ON PLU=ON S FATTY (2W) ACID (2W) ESTER
 L4 4657 S ABB=ON PLU=ON PHOSPHINE (2W) LIGANDS
 L5 0 S ABB=ON PLU=ON METAL ADJ CATION
 L6 20536 S METAL CATION
 L7 46267 S FATTY ACID (2W) ESTER?
 L8 88 S L1 AND L2
 L9 2 S L8 AND L4
 L10 35 S L7 AND L1
 L11 35 S L10 NOT L9
 L12 9 S L11 AND ALDEHYDE
 L13 0 S MONO ADJ ALCOHOL
 L14 195 S MONO ALCOHOL
 L15 93005 S DIOL
 L16 15205 S TRIOL
 L17 2 S L15 AND 65 (2W) PERCENT
 L18 5910 S L15 AND L16
 L19 486 S L18 AND RATIO
 L20 0 S L19 AND FIVE TO ONE
 L21 1 S L19 AND L1
 L22 0 S L14 AND L3
 L23 858248 S ALCOHOL
 L24 13110 S L23 AND L7
 L25 242 S L24 AND L15
 L26 23 S L25 AND L16
 L27 22 S L26 NOT L21
 L28 0 S L27 AND L4

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(FILE 'HOME' ENTERED AT 08:53:30 ON 18 SEP 2007)

FILE 'CAPLUS' ENTERED AT 08:53:42 ON 18 SEP 2007

L1 7547 S ABB=ON PLU=ON HYDROFORMYLAT?
 L2 344310 S ABB=ON PLU=ON FATTY (2W) ACID
 L3 8 S ABB=ON PLU=ON S FATTY (2W) ACID (2W) ESTER
 L4 4657 S ABB=ON PLU=ON PHOSPHINE (2W) LIGANDS
 L5 0 S ABB=ON PLU=ON METAL ADJ CATION
 L6 20536 S METAL CATION
 L7 46267 S FATTY ACID (2W) ESTER?
 L8 88 S L1 AND L2
 L9 2 S L8 AND L4
 L10 35 S L7 AND L1
 L11 35 S L10 NOT L9
 L12 9 S L11 AND ALDEHYDE
 L13 0 S MONO ADJ ALCOHOL
 L14 195 S MONO ALCOHOL
 L15 93005 S DIOL
 L16 15205 S TRIOL
 L17 2 S L15 AND 65 (2W) PERCENT
 L18 5910 S L15 AND L16
 L19 486 S L18 AND RATIO
 L20 0 S L19 AND FIVE TO ONE
 L21 1 S L19 AND L1
 L22 0 S L14 AND L3
 L23 858248 S ALCOHOL
 L24 13110 S L23 AND L7
 L25 242 S L24 AND L15
 L26 23 S L25 AND L16
 L27 22 S L26 NOT L21
 L28 0 S L27 AND L4

=> file uspatfull

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
148.80	149.01

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-10.14	-10.14

CA SUBSCRIBER PRICE

FILE 'USPATFULL' ENTERED AT 09:22:29 ON 18 SEP 2007

CA INDEXING COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 18 Sep 2007 (20070918/PD)

FILE LAST UPDATED: 18 Sep 2007 (20070918/ED)

HIGHEST GRANTED PATENT NUMBER: US7272859

HIGHEST APPLICATION PUBLICATION NUMBER: US2007214536

CA INDEXING IS CURRENT THROUGH 18 Sep 2007 (20070918/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 18 Sep 2007 (20070918/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2007

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2007

=> s hysroformylat?

L29 0 HYSROFORMYLAT?

=> s hydroformylat?
L30 3412 HYDROFORMYLAT?

=> s fatty acid (2w) ester?
220250 FATTY
925749 ACID
548545 ACIDS
950123 ACID
(ACID OR ACIDS)
191812 FATTY ACID
(FATTY(W)ACID)
480447 ESTER?
L31 71195 FATTY ACID (2W) ESTER?

=> s monoformyl
L32 71 MONOFORMYL

=> l29 and l30
L29 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s l29 and l30
L33 0 L29 AND L30

=> s l30 and l31
L34 223 L30 AND L31

=> l 134 and l32
L IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s l34 and l32
L35 4 L34 AND L32

=> d l35 1-4 ibib abs

L35 ANSWER 1 OF 4 USPATFULL on STN
ACCESSION NUMBER: 2006:227438 USPATFULL
TITLE: Aldehyde and alcohol compositions derived from seed oils
INVENTOR(S): Lysenko, Zenon, Midland, MI, UNITED STATES
Morrison, Donald L., Fort Collins, CO, UNITED STATES
Babb, David A., Lake Jackson, TX, UNITED STATES
Bunning, Donald L., South Charleston, WV, UNITED STATES
Derstine, Christopher W., Winfield, WV, UNITED STATES
Gilchrist, James H., Dunbar, WV, UNITED STATES
Jouett, H. Ray, Houston, TX, UNITED STATES
Kanel, Jeffrey S., Hurricane, WV, UNITED STATES
Olson, Kurt D., Cross Lanes, WV, UNITED STATES
Peng, Wei-Jun, Hurricane, WV, UNITED STATES
Philips, Joe D., Lake Jacksossn, TX, UNITED STATES
Roesch, Brian M., Cross Lanes, WV, UNITED STATES
Sanders, Aaron W., Missouri City, TX, UNITED STATES
Schrock, Alan K., Lake Jackson, TX, UNITED STATES

Serial No.: 10/551854

Thomas, Pulikkottil J., Midland, MI, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2006193802	A1	20060831
APPLICATION INFO.:	US 2004-551854	A1	20040422 (10)
	WO 2004-US12246		20040422
			20050930 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	US 2003-465663P	20030425 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	THE DOW CHEMICAL COMPANY, INTELLECTUAL PROPERTY SECTION, P. O. BOX 1967, MIDLAND, MI, 48641-1967, US	
NUMBER OF CLAIMS:	34	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Page(s)	
LINE COUNT:	1284	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An aldehyde composition derived by hydroformylation of a transesterified seed oil and containing a mixture of formyl-substituted fatty acids or fatty acid esters having the following composition by weight: greater than about 10 to less than about 95 percent monoformyl, greater than about 1 to less than about 65 percent diformyl, and greater than about 0.1 to less than about 10 percent triformyl-substituted fatty acids or fatty acid esters, and having a diformyl to triformyl weight ratio of greater than about 5/1; preferably, greater than about 3 to less than about 20 percent saturates; and preferably, greater than about 1 to less than about 20 percent unsaturates. An alcohol composition derived by hydrogenation of the aforementioned aldehyde composition, containing a mixture of hydroxymethyl-substituted fatty acids or fatty acid esters having the following composition by weight: greater than about 10 to less than about 95 percent monoalcohol {mono(hydroxymethyl)}, greater than about 1 to less than about 65 percent diol {di(hydroxymethyl)}, greater than about 0.1 to less than about 10 percent triol, tri(hydroxymethyl)-substituted fatty acids or fatty acid esters; preferably greater than about 3 to less than about 35 percent saturates; and preferably, less than about 10 percent unsaturates. The alcohol composition can be converted into an oligomeric polyol for use in the manufacture of polyurethane slab stock flexible foams.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L35 ANSWER 2 OF 4 USPATFULL on STN

ACCESSION NUMBER: 1998:58272 USPATFULL

TITLE: Process for the hydroformylation of olefinically unsaturated compounds

INVENTOR(S): Bahrmann, Helmut, Hamminkeln, Germany, Federal Republic of
Lappe, Peter, Dinslaken, Germany, Federal Republic of
Fell, Bernhard, Aachen, Germany, Federal Republic of
Xia, Zhigao, Aachen, Germany, Federal Republic of
Kanagasabapathy, Subba, Pune, India
PATENT ASSIGNEE(S): Hoechst Aktiengesellschaft, Germany, Federal Republic of (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5756854		19980526
APPLICATION INFO.:	US 1996-701775		19960826 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1995-19532393	19950902
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Killos, Paul J.	
ASSISTANT EXAMINER:	Parsa, Jafar	
LEGAL REPRESENTATIVE:	Bierman, Muserlian and Lucas	
NUMBER OF CLAIMS:	28	
EXEMPLARY CLAIM:	1	
LINE COUNT:	564	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process for the hydroformylation of olefinically unsaturated compounds whose hydroformylation products are insoluble or only sparingly soluble in water, comprising reacting the olefinically unsaturated compounds at 60° to 180° C. and 1 to 35 MPa with carbon monoxide and hydrogen in a homogeneous phase in a polar organic solvent and in the presence of a catalyst system comprising a rhodium carbonyl compound and a salt of a sulfonated or carboxylated organic monophosphine or polyphosphine, which salt is soluble both in the polar organic solvent and in water, distilling off the polar organic solvent from the reaction mixture and separating the catalyst system from the distillation residue by extraction with water.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L35 ANSWER 3 OF 4 USPATFULL on STN

ACCESSION NUMBER: 82:11344 USPATFULL
TITLE: Bis hydroxymethyl tricyclo (5,2,1,0.sup.2,6) decane
INVENTOR(S): Rogier, Edgar R., Minnetonka, MN, United States
PATENT ASSIGNEE(S): Henkel Corporation, Minneapolis, MN, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4319049		19820309
APPLICATION INFO.:	US 1980-194172		19801006 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Evans, Joseph E.		
LEGAL REPRESENTATIVE:	Collins, Forrest L., Span, Patrick J.		
NUMBER OF CLAIMS:	4		
EXEMPLARY CLAIM:	1		
LINE COUNT:	244		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention discloses tricyclic compounds having a gem-bis(hydroxymethyl) functional group. Compounds within the formulae of the present invention include those components having unsaturation in the ring structure and those in which the unsaturation has been converted a halogen or phosphite functionality.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L35 ANSWER 4 OF 4 USPATFULL on STN

ACCESSION NUMBER: 78:19098 USPATFULL

TITLE: Acetoxymethyl derivatives of polyunsaturated fatty triglycerides as primary plasticizers for polyvinylchloride

INVENTOR(S): Frankel, Edwin N., Peoria, IL, United States

Pryde, Everett H., Peoria, IL, United States

PATENT ASSIGNEE(S): The United States of America as represented by the Secretary of Agriculture, Washington, DC, United States (U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4083816		19780411
APPLICATION INFO.:	US 1976-699920		19760625 (5)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Schuter, Joseph E.		
ASSISTANT EXAMINER:	Kulkosky, Peter F.		
LEGAL REPRESENTATIVE:	Silverstein, M. Howard, McConnell, David G., Ribando, Curtis P.		
NUMBER OF CLAIMS:	23		
EXEMPLARY CLAIM:	1,5,10		
LINE COUNT:	794		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Acetoxymethyl derivatives of mono- and polyunsaturated fatty compounds including their vegetable oil triglycerides were prepared and found to function as primary plasticizers. Polyvinylchloride resins plasticized by the derivative compositions of the invention have permanance properties equal or superior to resins plasticized by dioctyl phthalate, dioctyl sebacate, or other commercial plasticizers.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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(FILE 'HOME' ENTERED AT 08:53:30 ON 18 SEP 2007)

FILE 'CAPLUS' ENTERED AT 08:53:42 ON 18 SEP 2007

L1 7547 S ABB=ON PLU=ON HYDROFORMYLAT?
L2 344310 S ABB=ON PLU=ON FATTY (2W) ACID
L3 8 S ABB=ON PLU=ON S FATTY (2W) ACID (2W) ESTER
L4 4657 S ABB=ON PLU=ON PHOSPHINE (2W) LIGANDS
L5 0 S ABB=ON PLU=ON METAL ADJ CATION
L6 20536 S METAL CATION
L7 46267 S FATTY ACID (2W) ESTER?
L8 88 S L1 AND L2
L9 2 S L8 AND L4
L10 35 S L7 AND L1
L11 35 S L10 NOT L9
L12 9 S L11 AND ALDEHYDE
L13 0 S MONO ADJ ALCOHOL
L14 195 S MONO ALCOHOL
L15 93005 S DIOL
L16 15205 S TRIOL
L17 2 S L15 AND 65 (2W) PERCENT
L18 5910 S L15 AND L16
L19 486 S L18 AND RATIO

Serial No.: 10/551854

L20 0 S L19 AND FIVE TO ONE
L21 1 S L19 AND L1
L22 0 S L14 AND L3
L23 858248 S ALCOHOL
L24 13110 S L23 AND L7
L25 242 S L24 AND L15
L26 23 S L25 AND L16
L27 22 S L26 NOT L21
L28 0 S L27 AND L4

FILE 'USPATFULL' ENTERED AT 09:22:29 ON 18 SEP 2007

L29 0 S HYSROFORMYLAT?
L30 3412 S HYDROFORMYLAT?
L31 71195 S FATTY ACID (2W) ESTER?
L32 71 S MONOFORMYL
L33 0 S L29 AND L30
L34 223 S L30 AND L31
L35 4 S L34 AND L32